

[illegible]

The flowchart illustrates the process for preparing a paste for forming a porous body. It begins with a chemical structure labeled 22, which is a branched polymer with terminal hydroxyl groups. This is combined with ACETONE 24. The mixture is then dissolved, resulting in a solution containing the polymer chains (12) and acetone molecules (24). This solution is then combined with a Particle Dispersion 20, which consists of four spherical particles. The mixture undergoes Ultrasonic dispersion, leading to a Dry state where the particles are coated with the polymer chains (26). Finally, the mixture is adjusted to a Paste Quality Adjust state (30), where the particles are further coated and the polymer chains are more densely packed (28). A separate inset shows a cross-section of a porous body (27) with a network of polymer chains (28) forming the structure.

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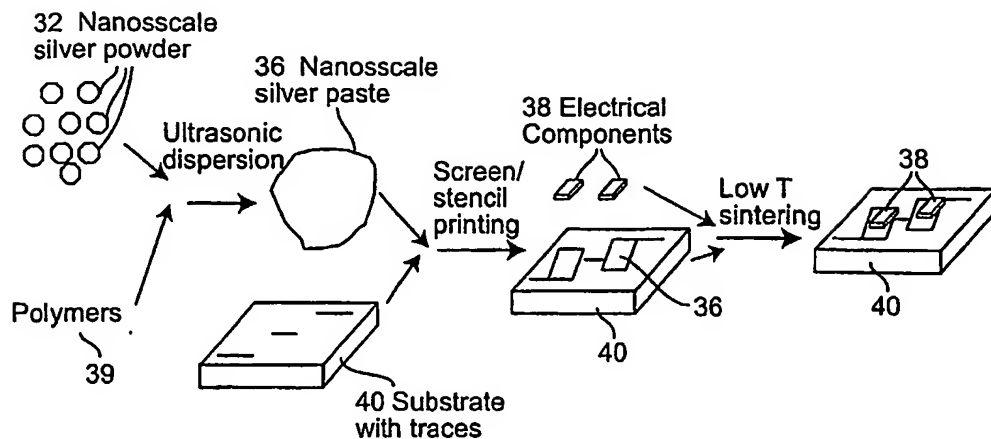


Figure 3

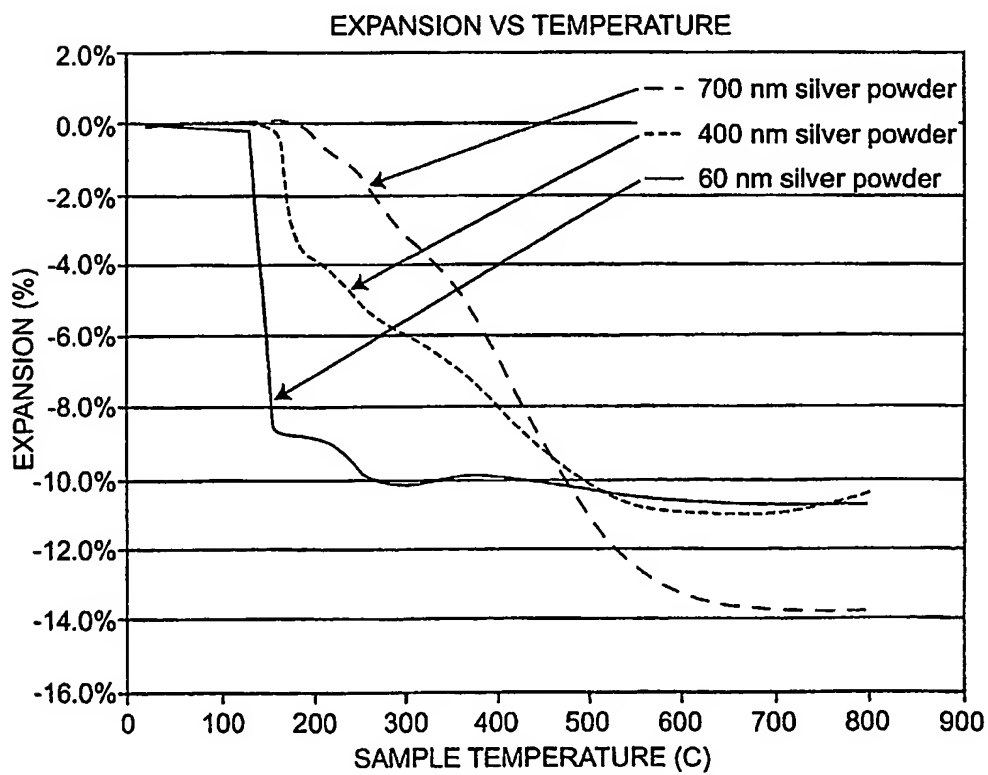
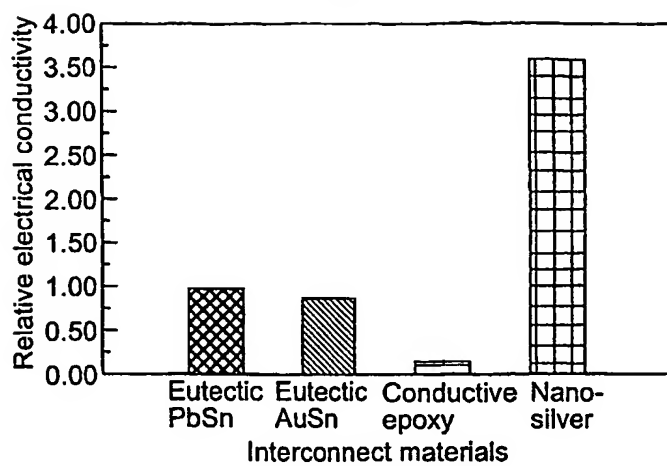
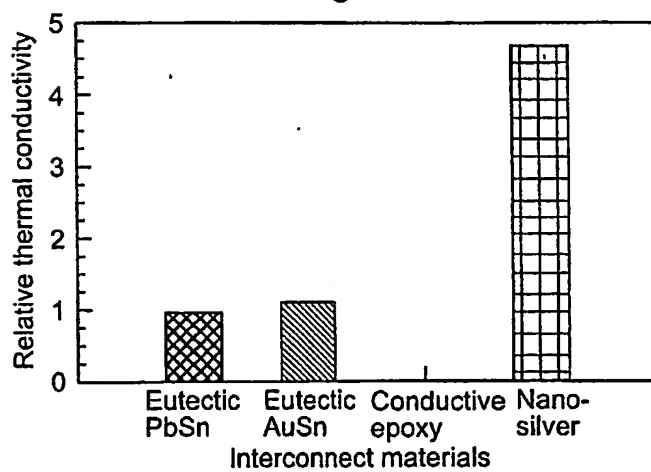
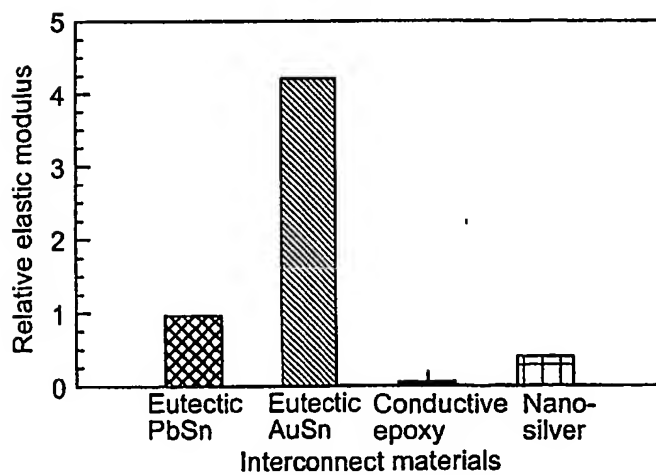
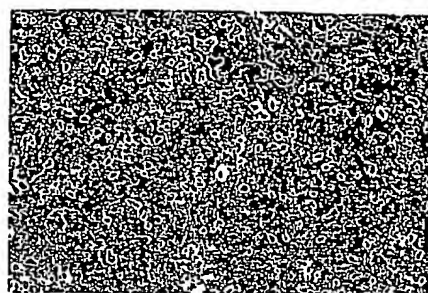


Figure 6

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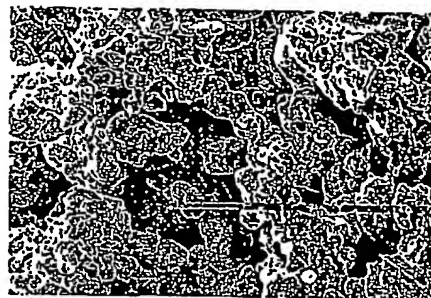
*Figure 4A**Figure 4B**Figure 4C*



Sintered
Nanoscale
Silver

2μm

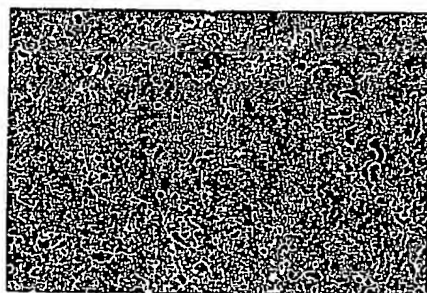
Figure 5A



microsilver

2μm

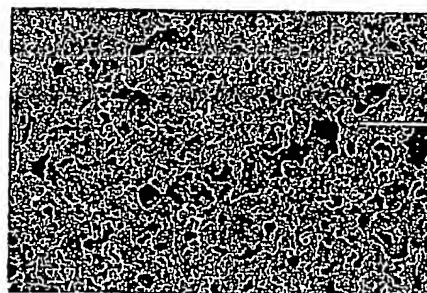
Figure 5B



100 nm Nano-Ag
PVB 450oC

2μm

Figure 7A



100 nm Nano-Ag
PRV914 450oC

2μm

Figure 7B